

Abstract

The invention provides a submarine, which has two functions of under water and on water surface, mainly by means of wind energy resource (rich and reusable) as power in the sea, using glide, sail, propeller three driving approaches to drive glide submarine. The submarine is comprised of vessel body, elevator, vertical tail plane, multi functions sail wing, wind power electrical generator, storage battery, electrical driving system, manpower driving system, diesel oil and electric integrative system, submarine elevating system, and live maintaining system, communications system and GPS, acoustic suscepance system (sonar system), and so on. The submarine adopts gliding wing or propeller drive under water, on water surface while with sail and propeller drive, wind power electrical generator may also be used for generating. During submarine is in underwater operation, submarine is buoyed and sunk through changing the specific gravity of submarine, such changing of gravity and buoyancy is become the power of submarine for advancing through multi functions sail wing.